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FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

By Hand Delivery

February 8, 2002

Ms. Magalie Roman Salas
Office of the Secretary
Federal Communications Commission
445 Twelfth Street, S.W.
Washington, DC 20554

RE: Ex Parte Presentation, WT Docket No. 01-333

Dear Ms. Salas:

On February 6, 2002, VoiceStream Wireless Corporation (VoiceStream), represented by Brian O'Connor and Gary Jones, and the National Communications System (NCS), represented by Peter Fonash and Paul Schwedler, held separate meetings with Paul Margie (Legal Advisor to Commissioner Copps), Monica Desai (Legal Advisor to Commissioner Martin) and Bryan Tramont (Senior Legal Advisor to Commissioner Abernathy) regarding Wireless Priority Service (WPS).

Gary Jones described the features and functions of the immediate WPS solution proposed by VoiceStream. This solution does require a short-term waiver of one of the Commission's technical requirements for WPS (i.e., the ability to invoke WPS on a per call or per session basis). The initial deployment of WPS would be in the Washington DC and New York City areas. VoiceStream plans to upgrade WPS in stages and to have a fully compliant WPS in place by the end of the year 2003. VoiceStream is working with other U.S. GSM operators to be prepared to deploy WPS on a nationwide basis.

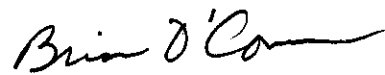
Peter Fonash discussed how NCS planned to implement WPS and provided preliminary data, compiled with the assistance of the Cellular Telecommunications and Internet Association, that indicated that the nominal impact that WPS would have on wireless operators' non-priority customers. Dr. Fonash noted that WPS eventually would be offered by several wireless operators as a public service, further increasing public safety access to WPS and further diluting the nominal impact WPS would have on non-priority customers.

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Copies of VoiceStream's and NCS' presentation materials are attached. Please note that the NCS materials are in draft form and will be submitted in final form by NCS and CTIA very shortly.

Pursuant to Section 1.1200 *et seq.* of the Commission's Rules, VoiceStream gave advance notice and an opportunity to be present at the meetings to the other parties to this proceeding.

Sincerely,

A handwritten signature in black ink, appearing to read "Brian T. O'Connor". The signature is fluid and cursive, with a long horizontal stroke at the end.

Brian T. O'Connor
Vice-President
Legislative & Regulatory Affairs

Attachments

cc: Monica Desai
Paul Margie
Bryan Tramont

Wireless Priority Service (WPS)

There are two initiatives ongoing in the United States:

- **Immediate** – VoiceStream Wireless to deploy initial capabilities in Washington DC and New York City to serve 5000 WPS users.
- **Nationwide** – Develop and deploy the technology necessary to deploy a more full featured WPS capability nationwide in all VoiceStream's GSM networks. Join with other U.S. GSM operators to deploy WPS on all GSM networks.

Immediate

- VoiceStream Wireless is in final negotiations with NCS to deploy initial WPS capabilities in Washington DC and New York City.
 - Implemented rapidly to meet the immediate needs of National Security and Emergency Preparedness (NS/EP) users, as directed by government agencies (White House, DoD, NSA, etc.). This initiative meets the President's mandate for ensuring telecommunications supporting national security activities is available and effective.
 - The Immediate capability will provide a subscription-based service with five levels of priority and queuing of priority calls for the next available resource.
 - All calls made by a WPS user will have a high priority level and will be placed in queue for the next available radio resource, should the system be congested.
 - Because of the need for rapid deployment, the system does not fully meet the FCC requirements in the Priority Access Report and Order; thus the Voicestream waiver was filed and supported by the NCS and others.
 - Meant to be a short-term implementation, to be replaced by the nationwide solution, when available.

Nationwide

- The GSM Community in the United States is working to develop a more fully featured WPS capability for deployment nationwide by the end of 2002 and complete WPS capabilities by the end of 2003.
 - Incorporating the ability to invoke priority use on a per-call or per-session basis, which should be in place by the end of 2002.
 - Incorporating end-to-end priority treatment of wireless calls by the end of 2003.
 - Developing methods of preserving a portion of the system capacity for non-priority and 911 calls, if the system were to become "monopolized" by the priority users.

Security

- Because of requirements from some government agencies (NSA, DoD, CIA, etc.) all GSM-based WPS implementations will support mobile phones capable of offering Type-1 security during priority calls.

Resource Limitations

Unlike the wireline service, the wireless industry is severely constrained by the amount of radio spectrum it can use to offer both WPS and non-priority services. As the result, a balance must be achieved between the needs of the NS/EP users and the general public for which the wireless industry serves.



FCC and NCS Meeting

February 6, 2002

Impact of Wireless Priority Services

Independent Analysis by:

Paul A. Christoforou, on behalf of CTIA

David R. Smith, PhD, George Washington University, SAIC

Joseph E. Wilkes, PhD, PE, Telcordia Technologies

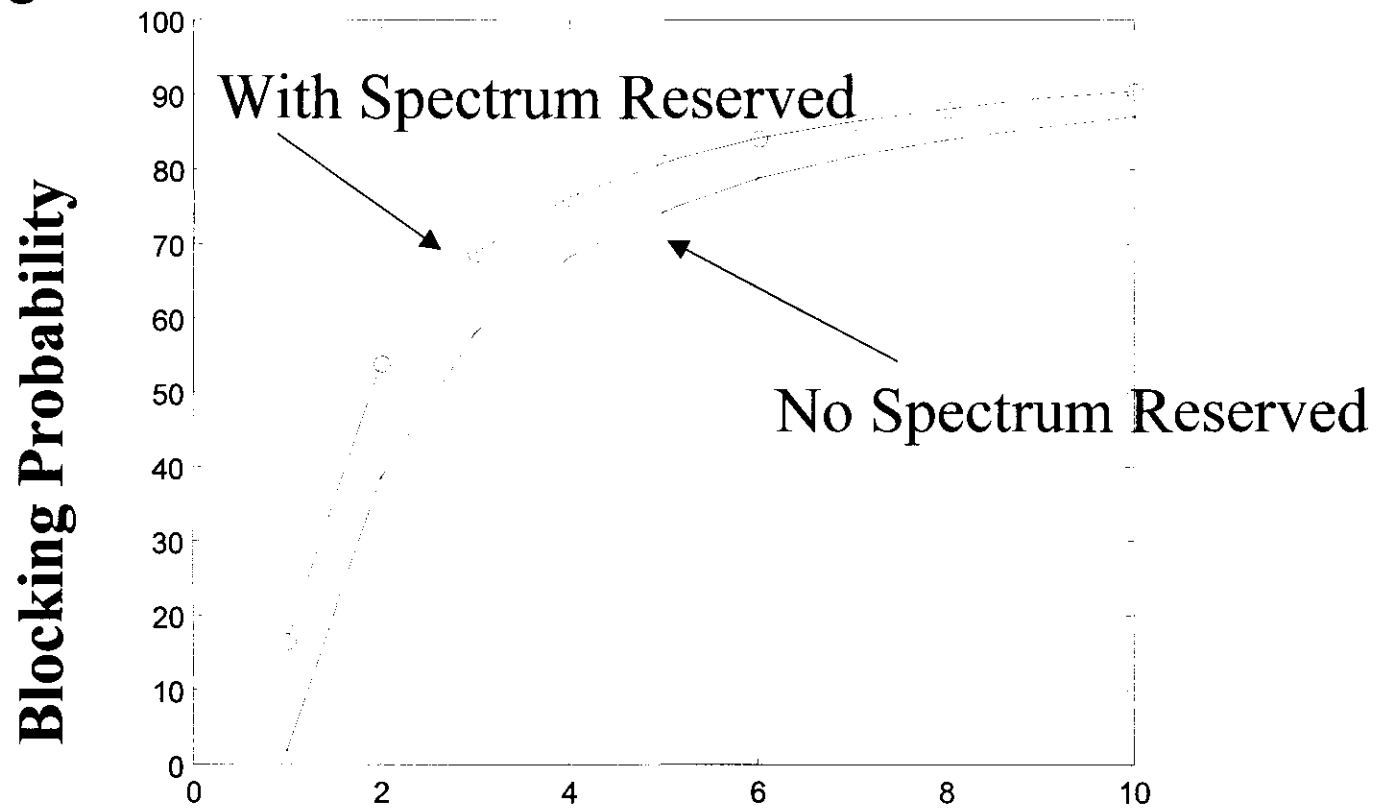


Purpose of Study

- To provide an Independent Examination of the issues
 - The effect on consumer blocking by offering Wireless Priority Service
 - The density of Wireless Priority users supported in an area
- To provide an independent determination of the Grade of Service offered to Wireless Priority users
- Analysis conducted by three consultants working as a team
 - Paul A Christoforou, on behalf of CTIA
 - David R. Smith, PhD, George Washington University, SAIC
 - Joseph E. Wilkes, PhD, PE, Telcordia Technologies



Comparison of Average Consumer Blocking Probability With and Without 25% of Spectrum Reserved for NS/EP Users

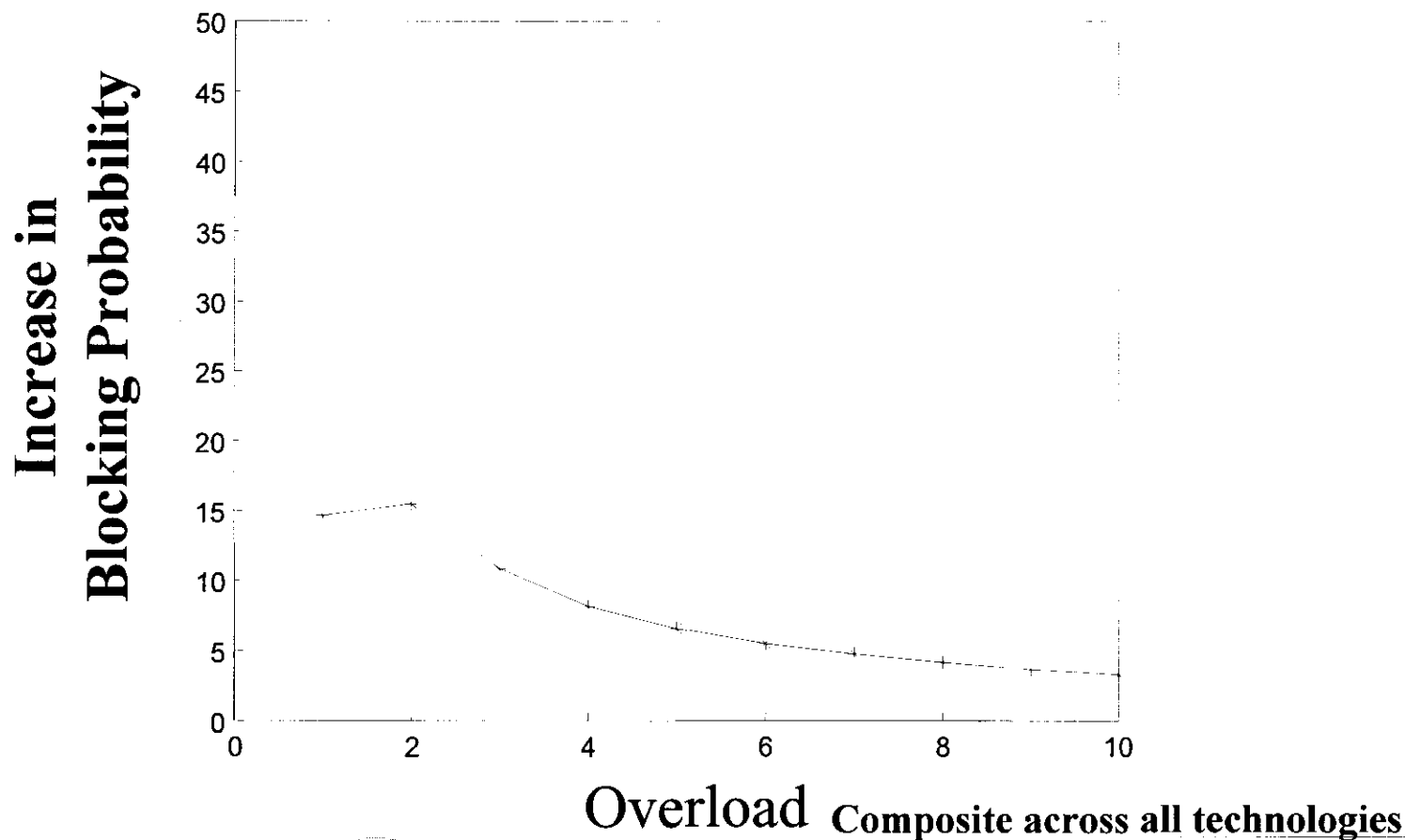


Overload

Composite across all technologies

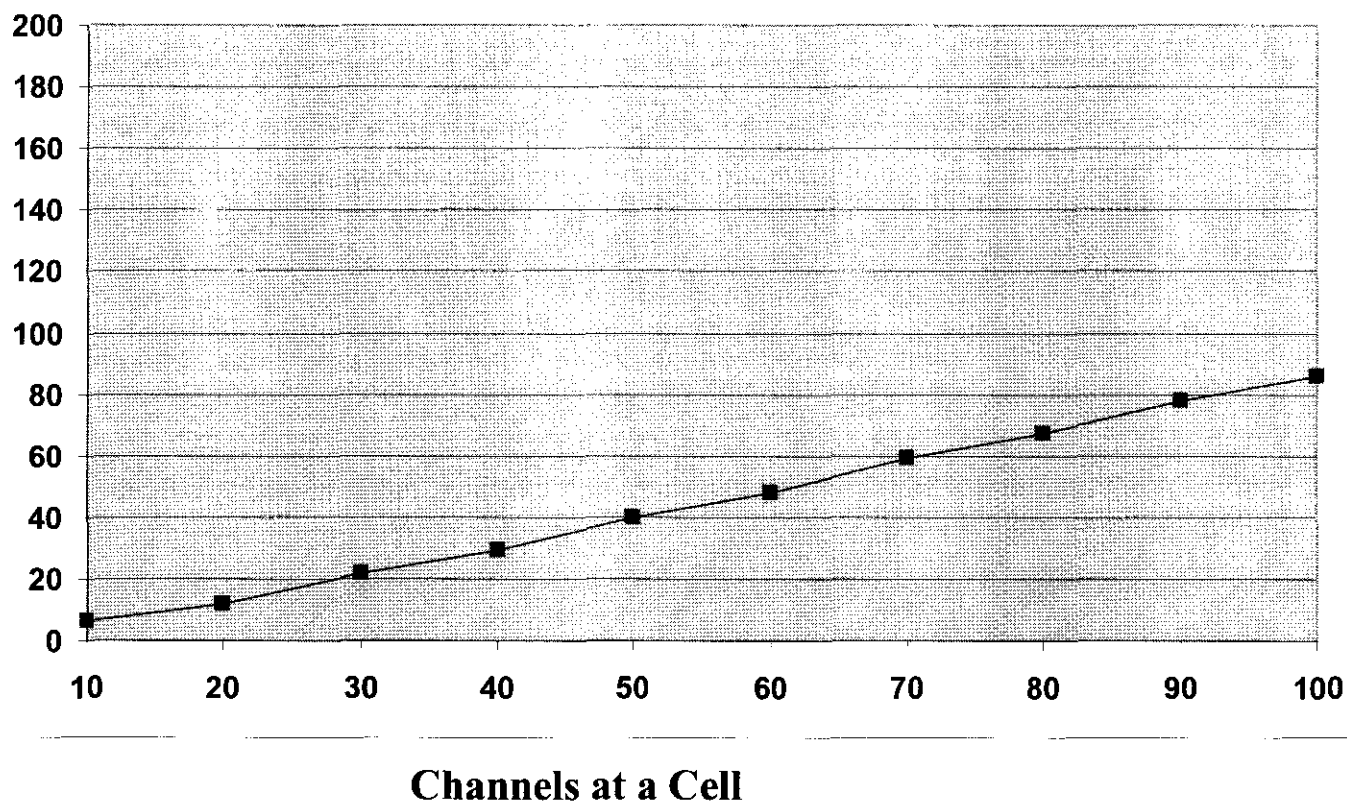


Average Increase in Call Blocking for Consumers with 25% of Spectrum Reserved for NS/EP Users

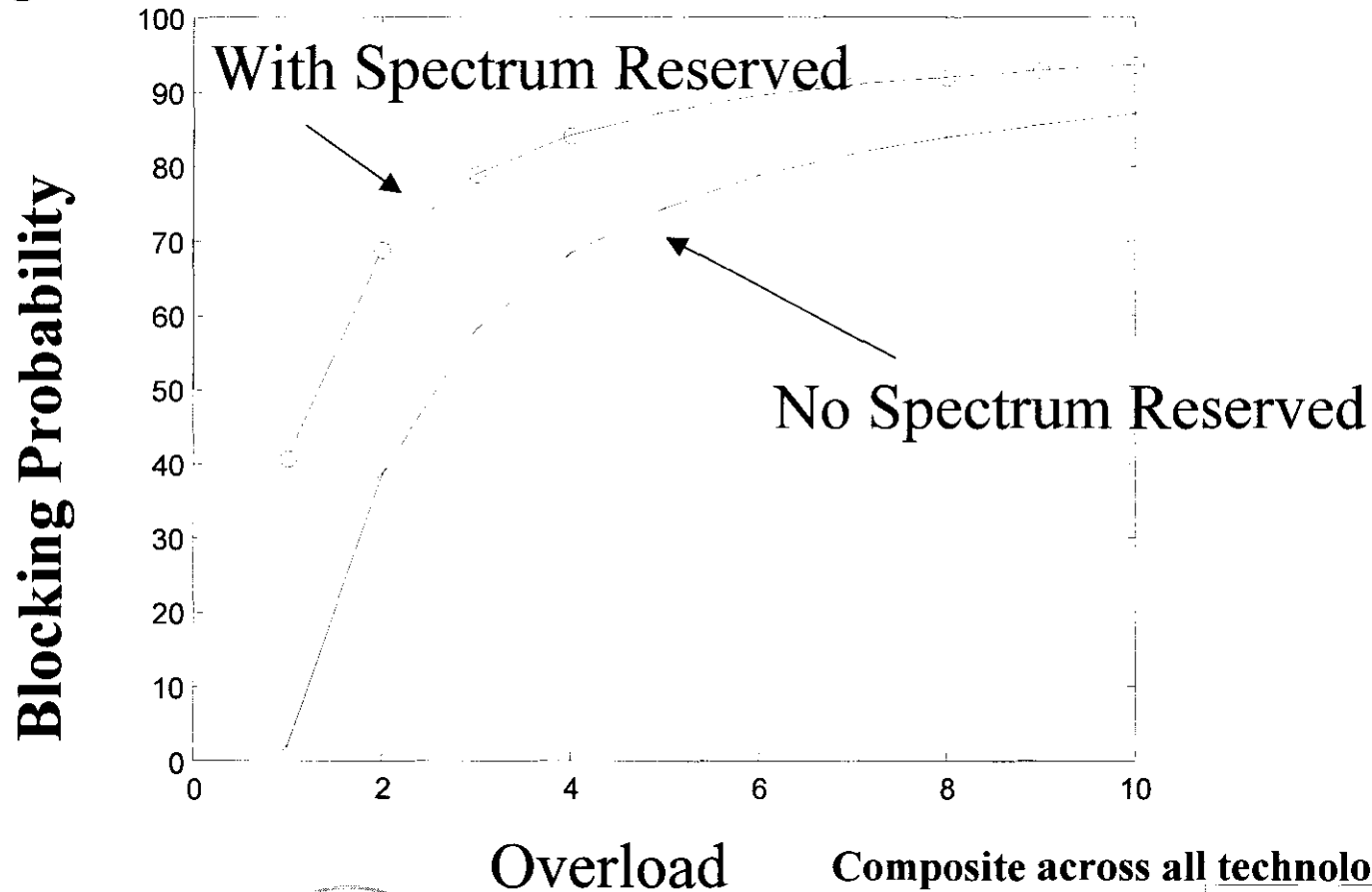


Number of NS/EP Users per Cell Site at 85% Call Completion Rate with 25% of Spectrum Reserved for NS/EP

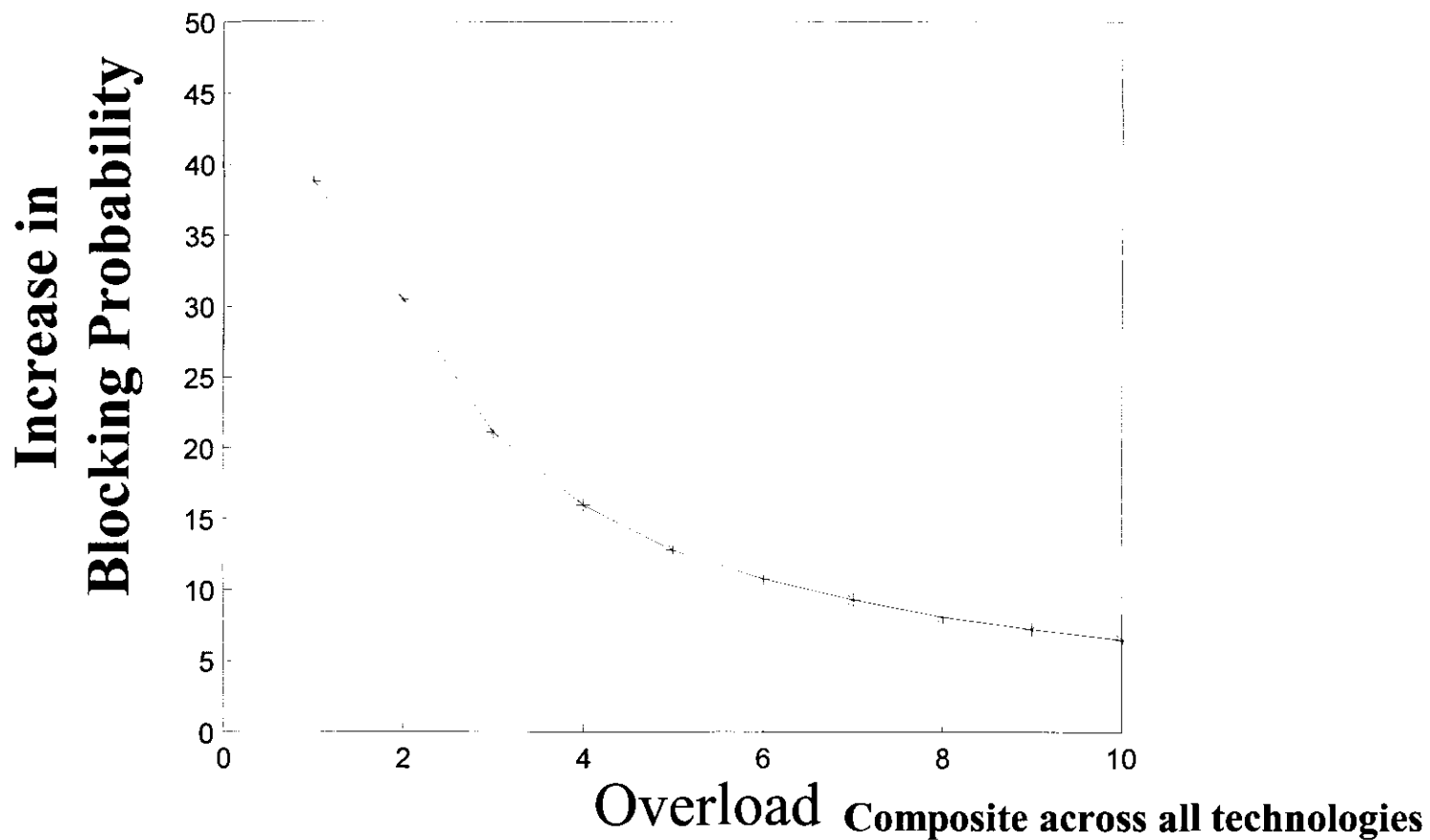
Number of NS/EP User Supported
per cell for 85% Call Completion Rate



Comparison of Average Consumer Blocking Probability With and Without 50% of Spectrum Reserved for NS/EP Users

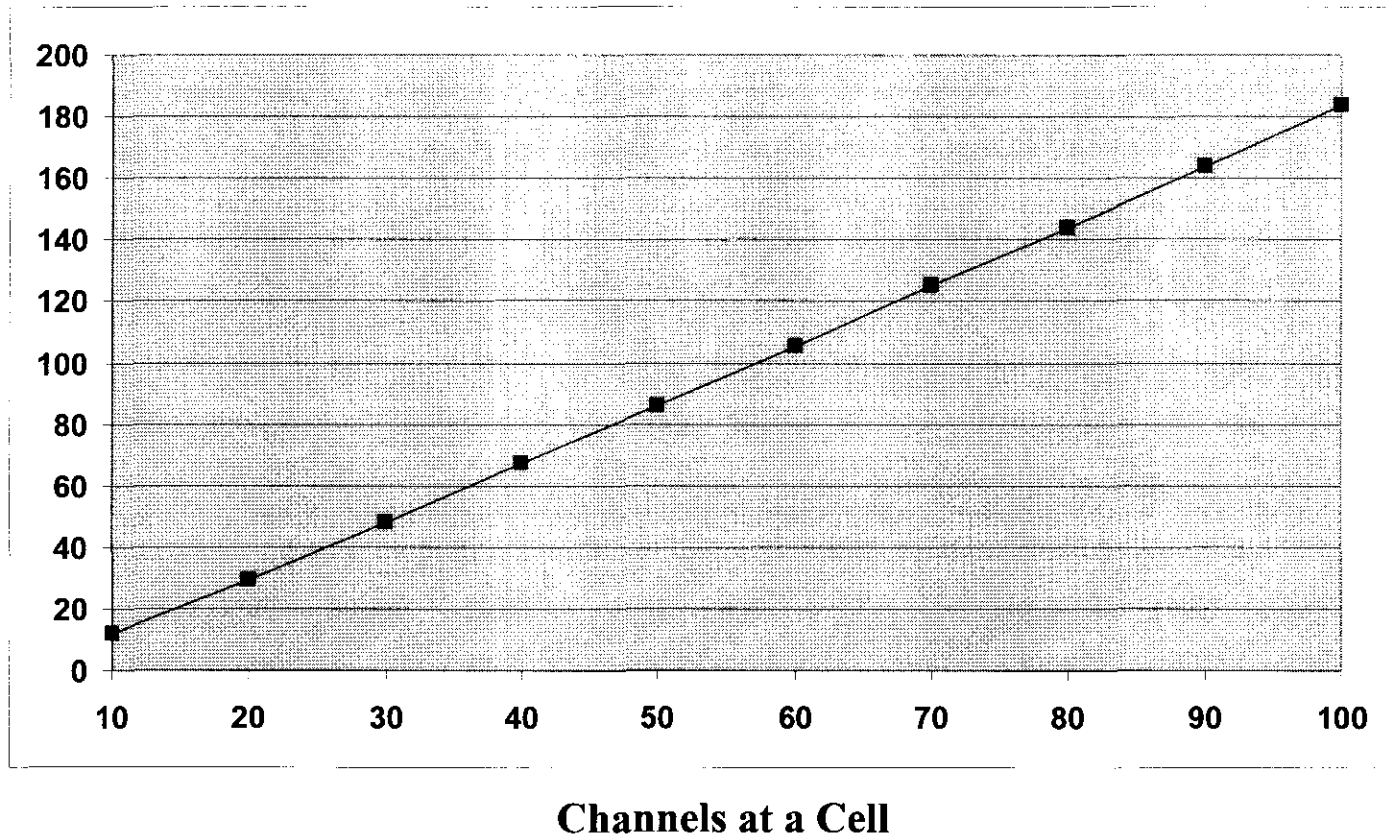


Average Increase in Call Blocking for Consumers with 50% of Spectrum Reserved for NS/EP Users



Number of NS/EP Users per Cell Site at 85% Call Completion Rate with 50% of Spectrum Reserved for NS/EP

Number of NS/EP User Supported
per cell for 85% Call Completion Rate



Independent Analysis for NCS
Presented to FCC
2/6/2002 Page 8



Other Considerations

- Illinois
- California

Backup Data Analysis Assumptions



Analysis Assumptions Normal Load

- Normal Cellular Radio Engineering for Grade of Service (GOS)
98% Call Completion Rate = 2% Blocking
- Consumer Call Patterns (Data provided by CTIA)
 - Average Holding Time = 150 seconds = 2.5 Minutes
 - Calling Rate = 0.44 calls/hour during busy hour
 - Average Minutes of Use during busy hour = 1.1 minutes/hour
- Cellular Network is designed to meet this load during the busy hour



Analysis Assumptions Emergency Load

- NS/EP Users GOS = 85% Call Completion Rate = 15% Blocking
- Calling Volumes during Emergency increase
 - From 5 times to 10 times (or higher in limited cases)
- Consumers
 - Holding Time = 150 seconds = 2.5 Minutes
 - Calling Rate = 0.44X (X =1 to 10) calls/hour during busy hour
 - Average Minutes of Use during busy hour = 1.1X minutes/hour
- NS/EP Users
 - Holding Time = 150 seconds = 2.5 Minutes
 - Calling Rate = 5.6 calls/hour during emergency
 - Average Minutes of Use during emergency = 14 minutes/hour